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[1. AF153-001: Global Surveillance Augmentation Using Commercial Satellite Imaging Systems](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* DIRECT TO PHASE II * TECHNOLOGY AREA(S): The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. ...

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[2. AF153-002: Handheld Dismount Kit for Persistent, Precision Navigation in GPS-challenged Environments for Military Operations](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[3. AF153-003: Additive Manufacturing to Support 100% Parts Availability](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[4. AF153-004: Additive Manufacturing of Masking to Support Turbine Engine Sustainment](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[5. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated "system on chip" (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

SBIR Defense Threat Reduction Agency Department of Defense

[6. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The Defense Threat Reduction Agency's Basic Research Program, Thrust Area 4 - Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

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7. [DTRA152-003: High Performance Computing \(HPC\) Application Performance Prediction & Profiling Tools](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA uses High Fidelity computer codes to investigate weapon effects phenomenology and techniques for countering WMD. End to end High Fidelity simulations in support of the DTRA Agent Defeat Warfighter Capability will require calculations including multiple phenomena that occur in vastly different time scales (μ s to hours). The resulting code run times will be prohibitively long without optimizat ...

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8. [DTRA152-004: Instrumentation for Characterization of Fireballs, Hot Gases, & Aerosols from Defeat of Targets Containing Biological and Chemical Agents](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Testing of methods to defeat chemical and biological agents often requires scaled experiments involving rapid combustion of bio- and chemical- agent simulants. This effort will focus on the development of next-generation instrumentation for effective characterization of physical and chemical processes occurring during rapid combustion in the expanding fireball, to provide quantitative and qualitat ...

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9. [DTRA152-005: Joint Learning of Text-based Categories](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

J9CXQ has the challenge of identifying and extracting evidential information from a complex and ambiguous text. An automated extraction system is being developed that will detect and characterize categories of entities, relations, events, and topics. The extracted information will be stored in a knowledge base that will enable automatically finding patterns and searching for critical information. ...

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10. [DTRA152-006: Island-mode Enhancement Strategies and Methodologies for Defense Critical Infrastructure](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The defense critical infrastructure (DCI) is the composite of DoD and non-DoD assets essential to project, support, and sustain military forces and operations worldwide. The DCI includes, but is not limited to, elements such as military bases, ballistic missile defense

installations, radar sites, etc. An electromagnetic (EM) attack (nuclear electromagnetic pulse [EMP] or non-nuclear EMP [e.g., hig ...

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Keywords'); $('#span.ext').hide(); })(jQuery); });
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